

VEHICLES AND METHODS FOR SOIL COMPACTION AND LOADING

ABSTRACT

Vehicles and methods provide for a single vehicle that has both loading ability to
5 grade and otherwise move dirt while also having the ability to compact soil. One or more
compaction wheels are included on a vehicle such as a skid steer loader. Wiper bars are
also included to clean circumferential grooves defined by compaction studs located about
the periphery of the compaction wheels. The compaction studs have a substantially flat
ground-contacting surface with a surface area significantly smaller than the typical
10 contact area of a tire, which results in increased pressure to provide for soil compaction.
A loader bucket of the vehicle may be elevated to various heights to alter the weight
distribution applied to the compaction wheels and/or may be filled with material such as
dirt to control the overall vehicle weight applied to the compaction wheels.

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